MA36L(85)-1

CURRENT INDUSTRIAL REPORTS

Electric Lighting Fixtures

NEWARK PUBLIC LIBRARY
AUG 2 0 1986
U. S. GOVT. PUBS.
DEPOSITORY 326

1985

U.S. Department of Commerce
BUREAU OF THE CENSUS

MA36L(85)-1
Issued August 1986

SUMMARY OF FINDINGS

During 1985 the total value of shipments of electric lighting fixtures was $4,911.7 million. This represented a 7-percent increase over the $4,570.9 million reported in 1984. Sales of residential type fixtures increased 4 percent from $772.0 million in 1984 to $804.3 million in 1985. In 1985, sales of commercial and institutional fixtures amounted to $1,830.4 million, up 9 percent from $1,685.0 million in 1984. Vehicular lighting equipment shipments increased 9 percent to $1,004.2 million in 1985 from $925.5 million in 1984. Sales of outdoor lighting equipment increased from $830.3 million in 1984 to $887.8 million in 1985, a 7-percent increase. Industrial type fixtures increased 8 percent from $358.0 million in 1984 to $385.0 million in 1985.

A description of the survey methodology and related information appears on page 8.

Table 1. VALUE OF SHIPMENTS OF ELECTRIC LIGHTING FIXTURES: 1975 TO 1985

(Millions of dollars)

Product code	Product description	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
	Electric lighting fixtures	4,911.7	4,570.9	3,950.0	3,412.5	3,347.0	3,095.2	3,023.0	2,787.8	2,352.6	2,014.0	1,812.6
36451	Residential type	804.3	772.0	640.9	463.9	495.5	496.4	584.5	547.7	474.2	382.2	287.1
36462	Commercial and institutional type, except spotlight	1,830.4	1,685.0	1,453.8	1,253.9	1,172.1	1,043.3	956.5	774.3	646.1	609.4	586.6
36463	Industrial type	385.0	358.0	328.7	366.9	421.4	397.3	350.7	296.4	243.4	202.8	186.1
36470	Vehicular lighting equipment	1,004.2	925.5	779.4	654.7	601.5	565.9	635.6	732.5	622.0	495.4	387.2
36485	Outdoor lighting equipment	887.8	830.3	747.2	673.1	656.5	592.3	495.7	436.9	366.9	324.2	341.2
36400	Components and renewal parts sold separately	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	24.4

[1] Beginning in 1976, components and renewal parts sold separately were collected as specific product codes (36451 69, 36462 69, 36463 29, 36470 39, and 36485 98).

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Paula Schmidt, (301) 763-5194.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

C3.158:

Table 2. QUANTITY AND VALUE OF SHIPMENTS OF ELECTRIC LIGHTING FIXTURES: 1985 AND 1984

(Quantity in 1,000 units; value in $1,000)

Product code	Product description	Number of companies	1985		1984	
			Quantity	Value	Quantity	Value
36451 --	Electric lighting fixtures, residential type	142	(X)	804,290	(X)	772,048
	Incandescent (excluding portable lamps, PAR lampholders, and floodlights):					
	Interior (including bath or kitchen):					
36451 11	Ceiling or pendant	94	28,860	439,801	27,370	426,818
36451 13	Wall or bracket	79	[a]7,695	98,815	6,471	85,215
	Outdoor:					
36451 15	Designed for attachment to house	61	7,856	88,931	7,485	84,200
36451 17	Not designed for attachment to house (garden, patio, yard)	42	[a]1,594	[a]39,595	1,536	37,038
36451 61	Fluorescent (except portable)	45	[a]7,191	110,538	[r]7,566	114,230
36451 69	Components and renewal parts for residential type sold separately	37	(X)	26,610	(X)	24,547
36462 --	Electric lighting fixtures, commercial and institutional type (except spotlight)	178	(X)	1,830,367	(X)	1,684,982
	Incandescent fixtures:					
	Utilitarian and ornamental types, except portable (primarily for public buildings, banks, stores, office buildings, schools, auditoriums, churches, theaters, etc):					
36462 11	Surface or pendant	56	2,544	74,634	2,613	84,248
36462 15	Recessed	41	18,980	290,082	18,217	269,587
36462 18	Specialized custom lighting fixtures, chandeliers, church lighting, etc. (except portable)	32	(X)	[a]22,481	(X)	[r]22,261
36462 19	Other incandescent fixtures such as interior display, portable lamps, and PAR lampholders	40	(X)	126,370	(X)	95,910
	Mercury and other high intensity discharge types:					
36462 32	Open reflector, 175 watts or less	20	152	17,108	134	15,233
36462 33	Open reflector, 176 watts or more	22	[b]105	[b]16,456	88	13,993
36462 34	Shielded, 175 watts or less	32	[b]526	[b]38,959	522	38,338
36462 35	Shielded, 176 watts or more	31	[a]126	32,673	92	26,812
	Fluorescent (except portable):					
36462 51	Recessed air handling	32	3,865	197,183	3,314	153,558
36462 53	Recessed non-air handling	59	14,536	387,633	15,780	356,038
36462 54	Striplights	65	11,573	181,225	11,820	169,474
36462 55	Ceiling systems (including luminous ceilings)	21	(X)	24,803	(X)	26,538
36462 56	Plastic wraparound	59	6,039	132,243	5,927	124,866
36462 57	Wall mounted fixtures	58	980	31,632	1,737	34,480
36462 58	Surface and pendant, louvered and lens type	63	1,497	73,158	1,488	75,446
36462 59	Enclosed and gasketed	38	[a]484	24,487	[a] [r]468	22,136
36462 61	Indoor signs, including electro-luminescence (exit, directional, etc.)	31	1,102	39,445	934	[r]32,352
36462 62	Indoor emergency lighting (automatic self-powered)	21	530	[a]42,967	499	[r]42,004
36462 60	All other (including indirect)	35	(X)	[a]43,626	(X)	50,945
36462 69	Components and renewal parts for commercial and industrial type sold separately	41	(X)	33,202	(X)	[r]30,763
36463 --	Electric lighting fixtures, industrial type	93	(X)	385,033	(X)	358,048
	General lighting (except portable):					
36463 11	Incandescent	24	[b]1,089	[b]26,386	1,083	27,185
36463 13	Fluorescent	60	5,426	114,923	6,312	112,176
	Mercury and other high intensity discharge types (including integrally mounted and remote ballasts):					
36463 15	Open reflector, 175 watts or less	17	102	9,205	73	5,491
36463 14	Open reflector, 176 watts or more	22	828	67,068	[r]903	78,061
36463 20	Shielded, 175 watts or less	18	166	15,711	[r]137	11,886
36463 21	Shielded, 176 watts or more	16	404	54,864	[r]277	39,192
	Other industrial types such as explosion-proof, vapor-proof, dust-tight, etc. (including enclosed and gasketed):					
36463 16	Incandescent (including portable)	21	1,261	20,851	1,056	19,615
36463 17	Fluorescent (including portable)	27	1,055	35,798	1,123	34,813
36463 19	Mercury and other high intensity discharge types (including integrally mounted and remote ballasts)	19	282	24,103	234	18,267
36463 29	Components and renewal parts for industrial type sold separately	26	(X)	16,124	(X)	11,362
36470 --	Vehicular lighting equipment	65	(X)	1,004,205	(X)	925,489
	Motor vehicle incandescent lighting equipment (spot, fog, and auxiliary equipment):					
36470 01	Shipments for domestic replacement	19	(X)	50,112	(X)	52,148
36470 03	Shipments to U.S. motor vehicle manufacturers for use in original equipment	16	(X)	40,069	(X)	35,912
36470 05	Shipments for export	14	(X)	4,979	(X)	4,204
	Other motor vehicle lighting equipment (excluding bulbs; including parking lights, dome lights, taillights, etc.):					
36470 22	Shipments for domestic replacement	18	(X)	97,462	(X)	[r]98,955
36470 23	Shipments to U.S. motor vehicle manufacturers for use in original equipment	25	(X)	554,412	(X)	510,913
36470 24	Shipments for export	14	(X)	88,854	(X)	47,128

See footnotes at end of table.

Table 2. QUANTITY AND VALUE OF SHIPMENTS OF ELECTRIC LIGHTING FIXTURES: 1985 AND 1984--Continued

(Quantity in 1,000 units; value in $1,000)

Product code	Product description	Number of companies	1985		1984	
			Quantity	Value	Quantity	Value
	Vehicular lighting equipment--Continued					
36470 29	Other than motor vehicle lighting equipment (including fluorescent fixtures such as aircraft, watercraft, railway locomotive, railroad car, streetcar, etc.)	30	(X)	133,719	(X)	r142,588
36470 39	Components and renewal parts for vehicular lighting sold separately	25	(X)	34,598	(X)	33,641
36485 --	Outdoor lighting equipment (excluding lamps)	98	(X)	887,805	(X)	830,306
	Street and highway lighting luminaries (including bridge and tunnel lighting):					
36485 11	Incandescent (filament and quartz iodine)	4	(D)	(D)	(D)	(D)
	Mercury and other high intensity discharge types (including integrally mounted and remote ballasts):					
36485 13	Open	6	614	20,301	r810	r25,806
36485 14	Enclosed	16	1,094	89,595	1,349	106,182
36485 15	Fluorescent	8	20	5,308	19	5,102
36485 16	Special purpose luminaries for highmast or tower lighting (excluding value of poles)	4	(D)	(D)	(D)	(D)
	Floodlighting, area sports and site lighting luminaries:					
	General purpose floodlighting:					
36485 20	Incandescent filament	9	50	3,433	51	3,385
36485 22	Incandescent quartz iodine	16	862	19,358	886	25,846
36485 24	Mercury and other high intensity discharge types (including integrally mounted and remote ballasts)	25	1,277	153,697	r1,289	r143,055
36485 26	Fluorescent	9	34	3,554	34	3,575
36485 28	Special purpose lighting (including sign lighting, service station island lighting, underwater fountain, and pool lighting)	15	401	34,387	362	29,905
	Area and site lighting:					
36485 29	Site lighting (under 20 foot mounting)	31	784	70,077	701	62,400
36485 30	Large area lighting (20 to 60 foot mounting)	28	268	78,231	r240	r66,360
36485 32	Building mounted (such as high intensity discharge, incandescent, and quartz)	22	1,127	69,237	r1,079	r59,733
36485 34	Outdoor PAR lampholders	10	3,510	36,721	3,413	35,135
	Aviation ground lighting equipment (for fixed-base airports):					
36485 31	Runway approach lighting (including fixtures, regulators, insulating transformers, isolating lamp transformers, beacons, wind tees, and cones)	6	(X)	5,747	(X)	r3,354
36485 33	Runway (except runway approach), taxiway, and ramp light (including fixtures, regulators, and isolating lamp transformers)	5	(X)	(D)	(X)	(D)
	Poles, standards, newels, brackets, and accessories:					
	For street and highway lighting:					
36485 36	Steel and cast iron poles	16	(X)	51,449	(X)	43,664
36485 38	Aluminum poles	13	(X)	23,699	(X)	20,510
36485 40	Concrete poles	3	(X)	c(D)	(X)	(D)
36485 37	Wood poles	6	(X)	c147	(X)	207
	For area lighting, sports and other off-street use:					
36485 46	Steel and cast iron poles (60 foot and over)	9	(X)	13,473	(X)	13,595
36485 47	Steel and cast iron poles (under 60 foot)	28	(X)	45,369	(X)	36,300
36485 48	Aluminum poles	22	(X)	27,301	(X)	r22,139
36485 49	Concrete and other nonwood poles	4	(X)	1,282	(X)	1,091
	Other floodlighting and area lighting equipment:					
36485 43	Spotlights (including door and stage; excluding vehicular)	14	a250	25,127	296	r27,882
36485 45	All other outdoor lighting equipment	22	(X)	33,082	(X)	r26,775
36485 98	Components and renewal parts for outdoor lighting equipment sold separately	30	(X)	32,755	(X)	r31,102

Note: The percent of estimation of each item is indicated as follows (see "Description of Survey" for a discussion of estimation of missing reports): a10 to 25 percent of this item is estimated. b26 to 50 percent of this item is estimated. cOver 50 percent of this item is estimated.

(D) Data withheld to avoid disclosing figures for individual companies. rRevised by 5 percent or more from previously published figures. Revisions for previous years are not available. (X) Not applicable.

Table 3. COMPARISON OF VALUES OF SHIPMENTS OF ELECTRIC LIGHTING FIXTURES, AS REPORTED IN THE MA36L, THE 1984 ANNUAL SURVEY OF MANUFACTURES, AND THE 1982 CENSUS OF MANUFACTURES

(Value in millions of dollars)

Product code	Product description	1984			1982	
			Annual Survey of Manufactures			
		MA36L	Value	Standard error of estimates[1]	MA36L	Census of Manufactures
3645	Residential lighting fixtures	(X)	1,503.7	6	(X)	1,289.7
36451	Residential lighting fixtures, except portable, including parts	772.0	684.3	7	463.9	469.8
36457	Portable residential lighting fixtures, including parts	(2)	664.0	8	(2)	628.9
36450 00	Residential lighting fixtures n.s.k., typically for establishments with 5 employees or more (see note)	(2)	155.4	24	(2)	164.4
36450 02	Residential lighting fixtures n.s.k., typically for establishments with less than 5 employees (see note)					26.6
3646	Commercial lighting fixtures	(X)	2,086.4	5	(X)	1,720.8
36462	Commercial and institutional type lighting fixtures, including parts	1,685.0	1,661.5	5	1,253.9	1,279.2
36463	Industrial type lighting fixtures, including parts	358.0	359.9	16	366.9	361.8
36460 00	Commercial lighting fixtures n.s.k., typically for establishments with 20 employees or more (see note)	(2)	65.0	12	(2)	58.6
36460 02	Commercial lighting fixtures n.s.k., typically for establishments with less than 20 employees (see note)					21.2
3647	Vehicular lighting equipment	(X)	934.8	4	(X)	668.3
36470	Vehicular lighting equipment (electric), excluding bulbs	925.5	934.8	4	654.7	660.5
36470 02	Vehicular lighting equipment n.s.k., typically for establishments with less than 10 employees (see note)	(2)			(2)	7.8
3648	Lighting equipment n.e.c.	(X)	1,353.0	7	(X)	1,170.3
36485	Outdoor lighting equipment, including parts	830.3	786.8	10	673.1	706.5
36489	Other electric and nonelectric lighting equipment, including hand portable equipment, and parts and accessories	(2)	484.1	6	(2)	383.0
36480 00	Lighting equipment n.e.c., n.s.k., typically for establishments with 5 employees or more (see note)	(2)	82.0	18	(2)	51.2
36480 02	Lighting equipment n.e.c., n.s.k., typically for establishments with less than 5 employees (see note)					29.6

Note: In the 1982 Census of Manufactures, shipments data for establishments of small companies (typically those with fewer than 5 employees for SIC 3645 and 3648, 20 employees for SIC 3646, and 10 employees for SIC 3647) were estimated from administrative records data rather than collected on questionnaires. These shipments are included in product codes 36450 02, 36460 02, 36470 02, and 36480 02. Products not adequately identified by detail product were coded to the appropriate industry (four-digits) followed by "000."

N.e.c. Not elsewhere classified. N.s.k. Not specified by kind. (X) Not applicable.

[1]The annual survey of manufactures percentage standard errors shown are the approximate relative errors of the estimates of level. A more detailed description of the standard error of estimate is given in the introduction of the annual survey of manufactures, Value of Product Shipments, M84(AS)-2, under "Qualifications of the Data."

[2]Detail data available only for the Census of Manufactures.

Table 4. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ELECTRIC LIGHTING FIXTURES: 1985

(Quantity in 1,000 units; value in $1,000)

Product code[1]	Product description	Manufacturers' shipments		Exports of domestic merchandise[1]			Percent exports to manufacturers' shipments		Imports for consumption[1,4]		Apparent consumption[5]		Percent imports to apparent consumption	
		Quantity	Value f.o.b. plant	Quantity[2]	Value at port[2]	Estimated producers' value[3]	Quantity	Value	Quantity	Value in foreign country	Quantity	Value	Quantity	Value
36451 11, 13, 15, 17, 61	Residential type electric lighting fixtures, except portable	53,196	777,680	1,357	23,350	19,745	3	3						
	Commercial, institutional, and industrial type electric lighting fixtures:													
36462 11, 15, 18, 19 36463 11, 16	Incandescent fixtures	(X)	560,804	(X)	13,177	1.,1'2	(X)	2						
36462 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 36463 13, 17	Fluorescent fixtures	(X)	1,329,123	(X)	9,734	8,231	(X)	1	11,054	81,718	(X)	2,962,917	(X)	3
36462 32, 33, 34, 35 36463 14, 15, 19, 20, 21	Mercury and other high intensity discharge fixtures	2,691	276,147	(X)	27,717	23,437	(X)	8						
	Vehicular lighting equipment:													
36470 01, 03, 05	Motor, spot, fog, and auxiliary equipment	(X)	95,160	109	2,101	1,777	(X)	2						
36470 22, 23 24, 29, 39	Other vehicular lighting equipment and parts	(X)	909,045	(X)	12,401	10,486	(X)	1	(X)	121,974	(X)	1,113,916	(X)	11
	Outdoor lighting equipment:													
36485 43	Spotlights	250	25,127	52	3,827	3,236	21	13	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36485 11, 13, 14, 15, 16, 20, 22, 24, 26, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 40, 45, 46, 47, 48, 49	Other outdoor lighting equipment	(X)	829,923	655	16,267	13,755	(X)	2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36451 69 36462 69 36463 29 36485 98	Components and renewal parts for electric lighting fixtures, except parts for vehicular lighting equipment	(NA)	108,691	(NA)	19,980	16,895	(X)	16	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available. (X) Not applicable.

[1] For comparison of SIC-based product codes with Schedule B export numbers and TSUSA import numbers, see table 6.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The adjustment factor for this report is 0.8456.

[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[5] Apparent consumption is derived by subtracting exports from the total of manufacturers' shipments plus imports.

Table 5. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ELECTRIC LIGHTING FIXTURES: 1984

(Quantity in 1,000 units; value in $1,000)

Product code[1]	Product description	Manufacturers' shipments		Exports of domestic merchandise[1]			Percent exports to manufacturers' shipments		Imports for consumption[1,4]		Apparent consumption[5]		Percent imports to apparent consumption	
		Quantity	Value f.o.b. plant	Quantity[2]	Value at port[2]	Estimated producers' value[3]	Quantity	Value	Quantity	Value in foreign country	Quantity	Value	Quantity	Value
36451 11, 13, 15, 17, 61	Residential type electric lighting fixtures, except portable	50,428	747,501	1,715	36,931	31,229	3	4	7,813	71,640	(X)	2,737,627	(X)	3
	Commercial, institutional, and industrial type electric lighting fixtures:													
36462 11, 15, 18, 19 36463 11, 16	Incandescent fixtures	(X)	518,806	(X)	16,527	13,975	(X)	3						
36462 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 36463 13, 17	Fluorescent fixtures	(X)	1,234,826	(X)	15,571	13,167	(X)	1						
36462 32, 33, 34, 35 36463 14, 15, 19, 20, 21	Mercury and other high intensity discharge fixtures	2,505	247,273	(X)	28,439	24,048	(X)	10						
	Vehicular lighting equipment:													
36470 01, 03, 05	Motor, spot, fog, and auxiliary equipment	(X)	92,264	129	1,917	1,621	(X)	2	(X)	97,258	(X)	1,010,826	(X)	10
36470 22, 23 24, 29, 39	Other vehicular lighting equipment and parts	(X)	833,225	(X)	12,181	10,300	(X)	1						
36485 43	Outdoor lighting equipment: Spotlights	296	27,882	69	7,748	6,552	23	23	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36485 11, 13, 14, 15, 16, 20, 22, 24, 26, 28, 29 30, 31, 32, 33, 34, 36, 37, 38, 40, 45, 46, 47, 48, 49	Other outdoor lighting equipment	(X)	771,322	828	22,581	19,094	(X)	2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
36451 69 36462 69 36463 29 36485 98	Components and renewal parts for electric lighting fixtures, except parts for vehicular lighting equipment	(X)	97,774	(X)	25,398	21,477	(X)	22	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available. (X) Not applicable.

[1] For comparison of SIC-based product codes with Schedule B export numbers and TSUSA import numbers, see table 6.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The adjustment factor for this report is 0.8456.

[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[5] Apparent consumption is derived by subtracting exports from the total of manufacturers' shipments plus imports.

Table 6. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED PRODUCT CODES, SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS: 1985

Product code	Product description	Export number[1]	Product description	Import number[2]	Product description
3651 11, 13, 15, 17, 61	Residential type electric lighting fixtures, except portable	653.3160	Nonportable lighting fixtures designed for household use		
	Commercial, institutional, and industrial type electric lighting fixtures:		Illuminating electric articles:		
36462 11, 15, 18, 19 36463 11, 16	Incandescent fixtures	653.3170	Incandescent	653.3720	Lighting fixtures for permanent indoor installation, brass
				653.3925	Lighting fixtures for permanent indoor installation, except brass and tin
36462 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 36463 13, 17	Fluorescent fixtures	653.3175	Fluorescent		
36462 32, 33, 34, 35 36463 14, 15, 19 20, 21	Mercury and other high intensity discharge fixtures	653.3180	Other		
36470 01, 03, 05	Vehicular lighting equipment: Motor, spot, fog, and auxiliary equipment	653.3110	Vehicular lighting fixtures: Motor, spot, fog, and auxiliary equipment	683.6500	Electric lighting equipment designed for motor vehicles, and parts thereof
36470 22, 23, 24, 29, 39	Other vehicular lighting equipment and parts	653.3120	Other and parts		
36485 43	Outdoor lighting equipment: Spotlights	653.3130	Outdoor lighting equipment: Searchlights and spotlights	(NA)	(NA)
36485 11, 13, 14, 15, 16, 20, 22, 24, 26, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 40, 45, 46, 47, 48, 49	Other outdoor lighting equipment	653.3140	Floodlights and other outdoor area lighting equipment	(NA)	(NA)
36451 69 36462 69 36463 29 36485 98	Components and renewal parts for electric lighting fixtures, except parts for vehicular lighting equipment	653.3190	Parts for illuminating articles	(NA)	(NA)

(NA) Not available.

[1]Source: 1985 edition, Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported From the United States.
[2]Source: Tariff Schedules of the United States Annotated (TSUSA), 1985.

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers companies engaged in the manufacture of specified types of electric lighting fixtures, except very small firms (generally less than 10 employees) for which 1982 Census of Manufactures data were derived from administrative records of other government agencies.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census annual Form MA36L, Electric Lighting Fixtures. The survey panel includes all known producers of the specified types of electric lighting fixtures, except the very small firms excluded from the scope of the survey. Approximately 396 companies are included. No estimate is derived for the small firms excluded from the survey.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on yearly movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous years may be revised as the result of corrected data from respondents, late reports for which imputations were made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions also include changes to prior period data resulting from reconciliation of the results of this survey with the 1984 Annual Survey of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey. Table 3 presents a comparison of data from the two series by census product class following the reconciliation.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output*— Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports*— Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports*— Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Import and Export Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTE

Data on electric lighting fixtures have been collected by the Bureau of the Census since 1962. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library. A list of depository libraries may be obtained from the Bureau of the Census regional offices cited below:

Office	Telephone
Atlanta, Georgia	(404) 881-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, North Carolina	(704) 371-6142
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 767-0621
Denver, Colorado	(303) 234-3924
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 209-6616
New York, New York	(212) 264-3860
Philadelphia, Pennsylvania	(215) 597-4920
Seattle, Washington	(206) 442-7828

RELATED REPORTS

The Bureau of the Census publishes the following related reports:

Series	Frequency	Title
Current Industrial Reports		
M36D	Monthly	*Electric Lamps*
MQ36B	Quarterly	*Electric Lamps*
MQ36C	Quarterly	*Fluorescent Lamp Ballasts*
MA36K	Annually	*Wiring Devices and Supplies*
Other Industry Reports		
M3-1	Monthly	*Manufacturers' Shipments, Inventories, and Orders*
(AS)	Annually	Annual Survey of Manufactures (ASM)
(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
FT410	Monthly	*U.S. Exports—Schedule E—Commodity by Country*
FT135	Monthly	*U.S. General Imports—Schedule A—Commodity by Country*

CONTACTS FOR DATA USERS

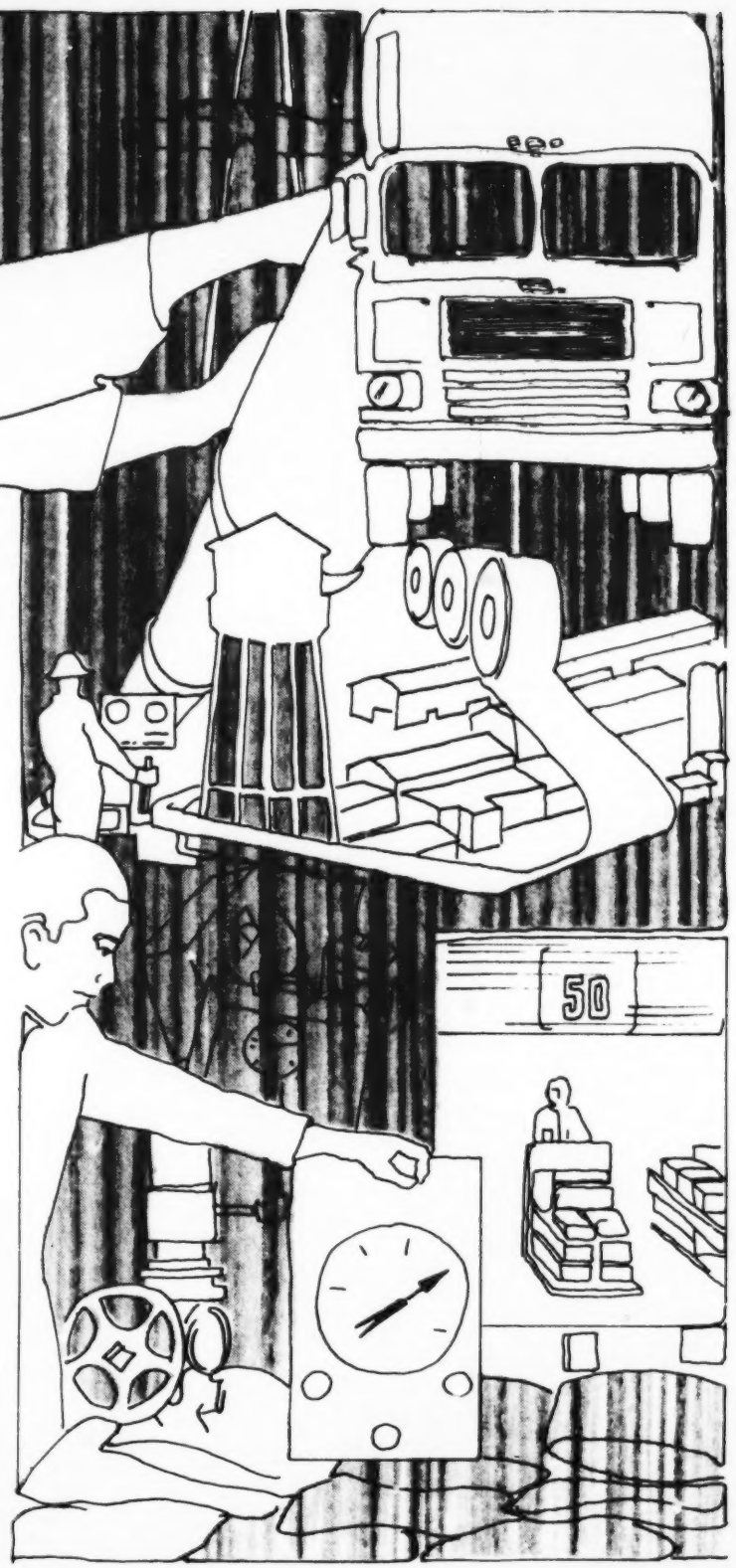
Subject Area	Contact	Phone Number
Current Industrial Report MA36L	Paula Schmidt	(301) 763-5194

Subject Area	Contact	Phone Number
Classification Systems Comparability	James Kristoff (ESD)	(301) 763-1935
Foreign Trade publications	Paul E. Herrick	(301) 763-5200
Census/ASM	Ted McGrath	(301) '63-5752
To order a Census Bureau publication	Customer Services	(301) 763-4100
International Trade Administration	John Harris	(202) 377-l178

ACKNOWLEDGMENTS

This report was prepared in the Industry Division, Bureau of the Census, under the direction of Malcolm E. Bernhardt, Chief, Current Durables Branch, and Kenneth E. McBeth, Chief, Electrical and Electronics Equipment Section. Paula Schmidt was directly responsible fo: the review of the data and preparation of the report. Gaylord L. Worden, Chief of the Division, and Thomas L. Mesenbourg, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.

Current Industrial Reports



Keep up-to-date on U.S. industrial activity with Bureau of the Census data covering over 5,000 products which represent 40 percent of all U.S. manufacturing!

The Bureau of the Census issues a continuing series of more than 90 monthly, quarterly, and annual reports on industrial production, inventories, and orders. The Current Industrial Reports include data for industries in the following categories:

All Manufacturing Industries
- Manufacturers' Shipments, Inventories, and Orders
- Survey of Plant Capacity
- Pollution Abatement Costs and Expenditures

Food
Textile Mill Products
Apparel
Wood and Paper Products
Office Furniture, Supplies, and Related Products
Chemicals and Petroleum Products
Rubber and Plastics Products
Glass Products
Primary Metals
Machinery and Machinery Components
Industrial Equipment and Consumer Goods
Computer and Selected Electronic Products
Switchgear and Industrial Controls
Motors, Generators, and Electrical Distribution Equipment
Aerospace

For further information and a free order form, write to Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233, or call (301) 763-4100.

U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Commerce
BUREAU OF THE CENSUS
Washington, D.C. 20233

Official Business
Penalty for Private Use, $300

FIRST-CLASS MAIL
POSTAGE & FEES PAID
CENSUS
PERMIT No. G–58